

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/336,091A  
Source: IFW/6  
Date Processed by STIC: 11/5/04

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091A

DATE: 11/05/2004

TIME: 12:04:46

Input Set : A:\L0461.70063US00seq.txt  
 Output Set: N:\CRF4\11052004\I336091A.raw

3 <110> APPLICANT: Van Snick, Jacques  
 4       Lethe, Bernard  
 5       Chaux, Pascal  
 6       Boon-Falleur, Thierry  
 7       van der Bruggen, Pierre  
 9 <120> TITLE OF INVENTION: MAGE-A1 PEPTIDES PRESENTED BY HLA CLASS  
 10      II MOLECULES  
 12 <130> FILE REFERENCE: L0461/7063  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/336,091A  
 C--> 14 <141> CURRENT FILING DATE: 1999-06-18  
 14 <160> NUMBER OF SEQ ID NOS: 73  
 16 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 1624  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Homo sapiens  
 23 <400> SEQUENCE: 1  
 24 gttttcaggg gacaggccaa cccagaggac aggattccct ggaggccaca gaggagcacc       60  
 26 aaggagaaga tctgcctgtg ggtcttcatt gcccagctcc tgcccacact cctgcctgct       120  
 28 gccctgacga gagtcatcat gtctctttag cagaggagtc tgcactgcaa gcctgaggaa       180  
 30 gcccttgggg cccaaacaaga ggccctgggc ctgggtgtg tgcaggctgc cacctcctcc       240  
 32 tcctctccctc tggcctctggg cacccttggag gaggtgcctt ctgctgggtc aacagatcct       300  
 34 ccccgagatc ctcaggggagc ctccgccttt cccactacca tcaacttcac tcgacagagg       360  
 36 caaccccagtg agggttccag cagccgtgaa gaggaggggc caagcaccc tcgtatcctg       420  
 38 gagtccttgt tccgagcagt aatcaactaa aaggtggctg atttgggtgg ttttctgctc       480  
 40 ctcaaataatc gagccaggga gccagtcaca aaggcagaaa tgctggagag tgtcatcaaa       540  
 42 aattacaagc actgtttcc tgagatcttcc ggccaaagcct ctgagtccctt gcagctggtc       600  
 44 ttggccatgt acgtgaagga agcagacccc accggccact cctatgtcct tgcacccctc       660  
 46 ctaggtctct cctatgtatgg cctgctgggt gataatcaga tcatgcctt gacaggcttc       720  
 48 ctgataatttgc tccttgtcat gattgcaatg gagggcggcc atgctcttgc ggaggaaatc       780  
 50 tggggaggagc tgagtgtat ggaggtgtat gatggggaggg agcacagtgc ctatggggag       840  
 52 cccaggaagc tgctcacccca agatttggtg caggaaaagt acctggagta ccggcagggtg       900  
 54 ccggacagtg atcccgacg ctatgagttc ctgtggggc caagggccct cgctgaaacc       960  
 56 agctatgtga aagtccctga gtatgtatc aaggcagtg caagagtgc ctttttcttc       1020  
 58 ccatccctgc gtgaagcgc tttgagagag gaggaagagg gagtctgagc atgagttgca       1080  
 60 gccaaggcca gtggggggg gactggccca gtgcacccctc cagggccggc tccagcagct       1140  
 62 tccctgcct cgtgtgacat gaggcccatt cttcactctg aagagagcgg tcagtttgc       1200  
 63 cagtagtagg tttctgttct attgggtgac ttggagattt atctttgttc tctttggaa       1260  
 65 ttgttcaaat gttttttttt aagggtatgg tgaatgaact tcagcatcca agtttatgaa       1320  
 67 tgacagcagt cacacagtgc tttgttatata gtttaagggt aagagtcttgc tgttttattc       1380  
 69 agattggaa atccattcta ttttgtgaat ttggataata acagcagtg aataagtact       1440  
 71 tagaaatgtg aaaaatgagc agtaaaatag atgagataaa gaactaaaga aattaagaga       1500  
 73 tagtcaattc ttgccttata cctcagtcta ttctgtaaaa tttttaaaga tatatgcata       1560

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75 cctggatttc cttggcttct ttgagaatgt aagagaaaatt aaatctgaat aaagaattct 1620  
77 tcct 1624  
79 <210> SEQ ID NO: 2  
80 <211> LENGTH: 309  
81 <212> TYPE: PRT  
82 <213> ORGANISM: Homo sapiens  
84 <400> SEQUENCE: 2  
85 Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu  
86 1 5 10 15  
87 Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr  
88 20 25 30  
89 Ser Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr  
90 35 40 45  
91 Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe  
92 50 55 60  
93 Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser  
94 65 70 75 80  
95 Ser Ser Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser  
96 85 90 95  
97 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe  
98 100 105 110  
99 Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
100 115 120 125  
101 Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe  
102 130 135 140  
103 Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys  
104 145 150 155 160  
105 Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly  
106 165 170 175  
107 Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr  
108 180 185 190  
109 Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His  
110 195 200 205  
111 Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr  
112 210 215 220  
113 Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr  
114 225 230 235 240  
115 Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp  
116 245 250 255  
117 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala  
118 260 265 270  
119 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
120 275 280 285  
121 Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
122 290 295 300  
123 Glu Glu Glu Gly Val  
124 305  
125 <210> SEQ ID NO: 3  
126 <211> LENGTH: 16

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Input Set : A:\L0461.70063US00seq.txt  
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127 <212> TYPE: PRT  
128 <213> ORGANISM: Homo sapiens  
130 <400> SEQUENCE: 3  
131 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe  
132 1 5 10 15  
134 <210> SEQ ID NO: 4  
135 <211> LENGTH: 16  
136 <212> TYPE: PRT  
137 <213> ORGANISM: Homo sapiens  
139 <400> SEQUENCE: 4  
140 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser  
141 1 5 10 15  
143 <210> SEQ ID NO: 5  
144 <211> LENGTH: 12  
145 <212> TYPE: PRT  
146 <213> ORGANISM: Homo sapiens  
148 <400> SEQUENCE: 5  
149 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile  
150 1 5 10  
152 <210> SEQ ID NO: 6  
153 <211> LENGTH: 12  
154 <212> TYPE: PRT  
155 <213> ORGANISM: Homo sapiens  
157 <400> SEQUENCE: 6  
158 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
159 1 5 10  
161 <210> SEQ ID NO: 7  
162 <211> LENGTH: 12  
163 <212> TYPE: PRT  
164 <213> ORGANISM: Homo sapiens  
166 <400> SEQUENCE: 7  
167 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe  
168 1 5 10  
170 <210> SEQ ID NO: 8  
171 <211> LENGTH: 12  
172 <212> TYPE: PRT  
173 <213> ORGANISM: Homo sapiens  
175 <400> SEQUENCE: 8  
176 Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser  
177 1 5 10  
179 <210> SEQ ID NO: 9  
180 <211> LENGTH: 12  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Homo sapiens  
184 <400> SEQUENCE: 9  
185 Arg Val Arg Phe Phe Pro Ser Leu Arg Glu Ala  
186 1 5 10  
187 <210> SEQ ID NO: 10  
188 <211> LENGTH: 12

RAW SEQUENCE LISTING  
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Input Set : A:\L0461.70063US00seq.txt  
 Output Set: N:\CRF4\11052004\I336091A.raw

189 <212> TYPE: PRT  
 190 <213> ORGANISM: Homo sapiens  
 192 <400> SEQUENCE: 10  
 193 Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
 194 1 5 10  
 196 <210> SEQ ID NO: 11  
 197 <211> LENGTH: 13  
 198 <212> TYPE: PRT  
 199 <213> ORGANISM: Homo sapiens  
 201 <400> SEQUENCE: 11  
 202 Leu Arg Glu Ala Ala Leu Arg Glu Glu Glu Gly Val  
 203 1 5 10  
 205 <210> SEQ ID NO: 12  
 206 <211> LENGTH: 36  
 207 <212> TYPE: DNA  
 208 <213> ORGANISM: Homo sapiens  
 210 <400> SEQUENCE: 12  
 211 gagtatgtga tcaaggtag tgcaagagtt cgcttt 36  
 213 <210> SEQ ID NO: 13  
 214 <211> LENGTH: 16  
 215 <212> TYPE: PRT  
 216 <213> ORGANISM: Homo sapiens  
 218 <400> SEQUENCE: 13  
 219 Tyr Val Lys Val Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg  
 220 1 5 10 15  
 222 <210> SEQ ID NO: 14  
 223 <211> LENGTH: 16  
 224 <212> TYPE: PRT  
 225 <213> ORGANISM: Homo sapiens  
 W--> 226 <400> SEQUENCE: 14  
 227 Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg Ile Ala Tyr Pro  
 228 1 5 10 15  
 230 <210> SEQ ID NO: 15  
 231 <211> LENGTH: 9  
 232 <212> TYPE: PRT  
 233 <213> ORGANISM: Homo sapiens  
 235 <400> SEQUENCE: 15  
 236 Glu Ala Asp Pro Thr Gly His Ser Tyr  
 237 1 5  
 239 <210> SEQ ID NO: 16  
 240 <211> LENGTH: 9  
 241 <212> TYPE: PRT  
 242 <213> ORGANISM: Homo sapiens  
 244 <400> SEQUENCE: 16  
 245 Ser Leu Phe Arg Ala Val Ile Thr Lys  
 246 1 5  
 249 <210> SEQ ID NO: 17  
 250 <211> LENGTH: 9  
 251 <212> TYPE: PRT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091A

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Input Set : A:\L0461.70063US00seq.txt  
Output Set: N:\CRF4\11052004\I336091A.raw

252 <213> ORGANISM: Homo sapiens  
254 <400> SEQUENCE: 17  
255 Asn Tyr Lys His Cys Phe Pro Glu Ile  
256 1 5  
258 <210> SEQ ID NO: 18  
259 <211> LENGTH: 10  
260 <212> TYPE: PRT  
261 <213> ORGANISM: Homo sapiens  
263 <400> SEQUENCE: 18  
264 Glu Val Tyr Asp Gly Arg Glu His Ser Ala  
265 1 5 10  
267 <210> SEQ ID NO: 19  
268 <211> LENGTH: 10  
269 <212> TYPE: PRT  
270 <213> ORGANISM: Homo sapiens  
272 <400> SEQUENCE: 19  
273 Arg Glu Pro Val Thr Lys Ala Glu Met Leu  
274 1 5 10  
276 <210> SEQ ID NO: 20  
277 <211> LENGTH: 9  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Homo sapiens  
281 <400> SEQUENCE: 20  
282 Asp Pro Ala Arg Tyr Glu Phe Leu Trp  
283 1 5  
284 <210> SEQ ID NO: 21  
285 <211> LENGTH: 9  
286 <212> TYPE: PRT  
287 <213> ORGANISM: Homo sapiens  
289 <400> SEQUENCE: 21  
290 Ser Ala Phe Pro Thr Thr Ile Asn Phe  
291 1 5  
293 <210> SEQ ID NO: 22  
294 <211> LENGTH: 9  
295 <212> TYPE: PRT  
296 <213> ORGANISM: Homo sapiens  
298 <400> SEQUENCE: 22  
299 Ser Ala Tyr Gly Glu Pro Arg Lys Leu  
300 1 5  
302 <210> SEQ ID NO: 23  
303 <211> LENGTH: 14  
304 <212> TYPE: PRT  
305 <213> ORGANISM: Homo sapiens  
307 <400> SEQUENCE: 23  
308 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu  
309 1 5 10  
311 <210> SEQ ID NO: 24  
312 <211> LENGTH: 10  
313 <212> TYPE: PRT

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/336,091A

DATE: 11/05/2004

TIME: 12:04:47

Input Set : A:\L0461.70063US00seq.txt

Output Set: N:\CRF4\11052004\I336091A.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:226 M:283 W: Missing Blank Line separator, <400> field identifier

L:559 M:283 W: Missing Blank Line separator, <400> field identifier